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IN THE SPECIFICATION

Please amend paragraph [0057] of the present application as follows:

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for controlling a row of memory cells in array 210. Logic 800 includes NAND gates 801-803, AND gate 804, NOR gates 805-807, OR gate 808, inverters 810-814, and inputs to receive a data bit DIN, a write enable signal WR_EN, a power-on reset signal POR, a pre-charge signal PCH, a pre-discharge signal PDCH, a test signal TEST, and the write control signal WR. In response to DIN and the control signals, logic 800 generates the dataline control signals ch_dl, dch_dl, ch_dlb, and dch_dlb and the dataline driver control signals RD and WR.

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during read operations. For example, FIG. 12 shows a dataline driver 1200 that is another embodiment of dataline driver 214. Dataline driver 1200 is similar to dataline driver 214, with the addition of PMOS transistors 1201-1202, NAND gates 1203-1204, and inverters 1205-1206. PMOS transistor 1201 is coupled between $V_{\rm np}$ and DL(1) and has a gate coupled to the output of NAND gate 1203, which includes a first input coupled to DL(2) and a second input to receive RD via inverter 1205. Together, PMOS transistor 1201 and NAND gate 1203 allow a logic high signal on DL(2) to propagate to DL(1) during read operations. Similarly, PMOS transistor 1202 is coupled between V_{nn} and DL(1) and has a gate coupled to the output of NAND gate 1204, which includes a first input coupled to DL(2) and a second input to receive RD via inverter 1206. Together, PMOS transistor 1202 and NAND gate 1204 allow a logic high signal on $\overline{DL(2)}$ to propagate to $\overline{DL(1)}$ during read operations.

[0056] Accordingly, for embodiments that utilize the dataline driver 1200 of FIG. 12, the PMOS pull-up transistors MP1 and MP2 in memory cells 400 may be tested in the manner described above for testing the NMOS pull-down transistors MN1 and MN2, thereby eliminating steps 702-704 and 709-711 which, in turn, reduces testing time. However, although allowing for faster testing of PMOS transistors MP1 and MP2, dataline driver 1200 occupies more silicon area than dataline driver 214.

[0057] FIG. 8 shows logic 800 that is one embodiment of logic 570 of FIG. 5 for controlling a row of memory cells in array 210. Logic 800 includes NAND gates 801-803, AND gate 804, NOR gates 805-807, OR gate 808, inverters 810-814, and inputs to receive a data bit DIN, a write enable signal WR_EN, a power-on reset signal POR, a pre-charge signal PCH, a pre-discharge signal PDCH, a test signal TEST, and the write control signal WR. In response to DIN and the control signals, logic 800 generates the dataline control signals ch_dl, dch_dl, ch_dlb, and dch_dlb and the dataline driver control signals RD and WR.